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MINERALOGICAL ABSTRACTS

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ABBREVIATIONS AND SYMBOLS

M.M. . . Mineralogical Magazine

M.A. . . Mineralogical Abstracts

A.M. . . American Mineralogist

CHEMICAL & PHYSICAL CHEMICAL

atomic absorption spectroscopy	..	AAS
cation-exchange capacity	..	c.e.c.
chemical analysis	..	chem. anal.
concentrated	..	conc.
differential thermal analysis	..	DTA
dilute	..	dil.
disintegrations per minute	..	d.p.m.
equivalent U_3O_8	..	eU_3O_8
ethylenediaminetetra-acetic acid	..	EDTA
heat of formation (absolute temperature subscript)	..	ΔH_t
hydrogen ion conc. acidity	..	pH
insoluble residue	..	insol. res.
isotopes, e.g.	..	$^{40}Ar, ^{40}K$
loss on ignition	..	ign. loss
milliequivalent	..	me.
microgramme	..	μg
million-years	..	m.y.
neutron activation analysis	..	NAA
not determined	..	n.d.
not found	..	nt. fd.
not present	..	nil
parts per million	..	p.p.m.
rare earths	..	TR or RE
standard mean ocean water	..	SMOW
strength of solution, normal	..	N
— — — molar	..	M
substances in ionic state		
anions, e.g.	..	Cl^-, SO_4^{2-}
cations, e.g.	..	K^+, Fe^{3+}
thermogravimetric analysis	..	TGA
trace	..	tr.
X-ray fluorescence analysis	..	XRF

CRYSTALLOGRAPHIC & STRUCTURAL

Angstrom unit (10^{-8} cm)	..	Å
crystal axes	..	a, b, c
— face indices	..	(hkl)
— form indices	..	{hkl}
— zone indices	..	[hkl]
indices of X-ray diffractions	..	hkl
intensity	..	I
— relative	..	I/I_0
interplanar spacing	..	d
mica structural polymorphs	..	$1M_1, 2M_1$
Siegbahn units	..	kX
space group. These words are written in full		
unit cell, formula units	..	Z
— repeat distances	..	a, b, c
— reciprocal lattice lengths of edges	..	a^*, b^*, c^*
— interaxial angles direct lattice	..	α, β, γ
— — — reciprocal lattice	..	$\alpha^*, \beta^*, \gamma^*$

OPTICAL

dispersion, e.g.	..	$r > v$
electron microscopy	..	EM
extinction angle, e.g.	..	$\gamma : c$
infrared	..	IR
optic axial angle	..	2V
— — plane	..	O.A.P.
refractive index, in text	..	refr. ind.
— — of isotropic mineral	..	n
refractive indices		
of uniaxial mineral	..	ω, ϵ
of biaxial mineral	..	α, β, γ
scanning electron microscopy	..	SEM
sign of biaxiality		
negative	..	$2V_\alpha$ or —
positive	..	$2V_\gamma$ or +
ultraviolet	..	UV

PHYSICAL

calculated	..	calc.
calorie	..	cal.
calorie, large	..	kcal.
cycles per second	..	c/s
degree centigrade	..	$^{\circ}C$
density	..	D (quote units)
—, relative, e.g.	..	D_4^{20}
electron paramagnetic resonance	..	e.p.r.
gramme	..	g
hardness	..	H.
melting-point	..	m.p.
micron (10^{-4} cm)	..	μ
millimicron (10^{-7} cm)	..	m μ
nanometre (10^{-7} cm)	..	nm
natural remanent magnetization	..	n.r.m.
pounds per square inch	..	lb/in. ²
pressure	..	P
soluble	..	sol.
specific gravity, terms of reference not known	..	sp. gr.
temperature	..	T
Vickers hardness number	..	VHN
wavelength	..	λ

SYMBOLS

approximately equal to	..	\sim
equal to	..	=
equal to or greater than	..	\geq
equal to or less than	..	\leq
greater than	..	$>$
less than	..	$<$
not equal to	..	\neq
parallel to	..	\parallel
per cent.	..	%
per mille	..	‰
perpendicular to	..	\perp
proportional to	..	\propto

ABBREVIATIONS USED IN REFERENCE TO PUBLICATIONS

Abhdl.	Abhandlungen	Gesell.	Gesellschaft	Prosp.	Prospecting
Abstr.	Abstract, -s	Govt.	Government	Publ.	Publication(s), published
Abt.	Abteilung				
Acad., Accad., Akad.	Academy, & equiv.	Hdbh.	Handbuch	Razv.	Razvedka = survey
Adv.	Advancement			Rec.	Records
Agric.	Agricultural, -e	Illustr.	Illustrated, -ions	Ref.	References, referata
Anal.	Analytical, &c.	Imp.	Imperial	Rend.	Rendiconti
Ann., An.	Annals, Anales, & equiv.	Industr.	Industrial, -y	Repb.	Republic
Anorg.	Anorganisch	Inform.	Information	Rept.	Report(s)
Appl.	Applied	Inst.	Institute, institution, & equiv.	Res.	Research
Arch.	Archives			Reserv.	Reserves
Asoc., Assoc.	Association, & equiv.	Instr.	Instruments	Resrcs.	Resources
Astron.	Astronomical	Int.	Interior	Rdsch.	Rundschau
		Intern.	International	Rev.	Review
Bd.	Band	Invest.	Investigations	Roy.	Royal, & equiv.
Beitr.	Beiträge	Issl.	Issledovaniye = investigation		
Ber.	Berichte	Ist.	Istituto	Sborn.	Sbornik = magazine
Berg.	Bergwesen	Izd.	Izdanie = publication	Sch.	School, Schule
Bol., Boll., Bull.	Bulletin, & equiv.	Izvest.	Izvestiya	Sci.	Science
Bur.	Bureau			Sect.	Section
		Jahrb.	Jahrbuch	Sedim.	Sedimentary
Ceram.	Ceramic, & equiv.	Jahresb.	Jahresbericht	Ser., sér.	Series, & equiv.
Chem., Chim.	Chemical, -stry, & equiv.	Jorn., Journ.	Journal, & equiv.	Serv.	Service
Cien.	Ciencia, -s			Sitzb.	Sitzungsbericht
Circ.	Circular	Khim.	Khimie, &c.	Skr.	Skrift, -en -er
Cl.	Classe	Kl.	Klasse	Soc.	Society, & equiv.
Com.	Comisión	Krist.	Kristallographie, &c.	Sondbd.	Sonderband
Comm.	Commission			Spec., spez.	Special, & equiv.
Conf.	Conference, & equiv.	Lab.	Laboratory	Stand.	Standard(s)
Congr.	Congress, & equiv.	Lit.	Literary	Stn.	Station
Contr.	Contributions			Suppl.	Supplement
C.R.	Comptes Rendus	Mag.	Magazine	Surv.	Survey, -or
Crist., Cryst.	Crystallographical, -y & equiv.	Mat., Math.	Mathematical, & equiv.	Symp.	Symposium
		Medd.	Meddelelser		
Dept.	Department, & equiv.	Mem., Mém.	Memoir, -s, & equiv.	Tab(s).	Table(s), tabellen
Diss.	Dissertation	Metall.	Metallurgical, -y	Techn.	Technological, -y
Divn.	Division	Min.	Mineralogical, -ist, -y	Tids(s)kr.	Tid(s)krift, -en
Dokl.	Doklady = C.R.	Misc.	Miscellaneous	Tijdschr.	Tijdschrift
		Mitt.	Mitteilungen	Trab.	Trabajos
Econ.	Economic	Mh.	Monatsheft	Trans.	Transactions
Educ.	Education	Mus., Muz.	Museum, & equiv.	Transl.	Translated, -ion
Eng.	Engineering				
Exped.	Expedition	Nac., Nat., Naz.	National, & equiv.	U.A.R.	United Arab Republic
Exper.	Experimental	Natur.	Natural, -alist, & equiv.	Uch.	Uchenyye = learned
Expl.	Exploration	Natur-w, -v.	Naturwissenschaft, & equiv.	Ucheb.	Uchebnyi = teaching
				Unders.	Undersögelse, undersökni
				Univ.	University, & equiv.
Fac.	Faculty				
Fig(s).	Figure(s)	Obraz.	Obrazovanie = education	Verhdl.	Verhandlungen
Fis.	Fiscale, fisico	Obshch.	Obshchestva = society	Vidensk.	Videnskaps
Fören.	Föreningen			Volc., Vulk.	Volcanological, -y &c.
Förh.	Förhandlinger	Petr.	Petrological, -y, & equiv.	Vses.	Vsesoyuznyi = All-Union
Fortsch.	Fortschritt, -e	Petrol.	Petroleum	Vyshh.	Vyshshikh = higher
		Phil.	Philosophical, &c.		
Gen.	General	Photos.	Photographs	Wiss.	Wissenschaft
Geo-chem., chim.	Geochemical -stry, &c.	Photomicros.	Photomicrographs		
Geogr.	Geography, ical, &c.	Phys.	Physical, -s, & equiv.	Zap.	Zapiski = memoirs
Geol., géol.	Geology, ical, -ist, & equiv.	Pl(s).	Plate(s)	Zav.	Zavodskaya = factory
Geophys., geofis.	Geophysical, -s, &c.	Polytech.	Polytechnic, & equiv.	Zaved.	Zavedeni = institution
		Pract., Prakt.	Practical, & equiv.	Zeits.	Zeitschrift
		Proc.	Proceedings	Zhurn.	Zhurnal = journal
		Prof.	Professional	Ztg.	Zeitung

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